

# Hydrologic Forecast Tenmile Creek

CONDITIONS 04/26/2020

Lewis & Clark County Water Quality Protection District

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## SUMMARY

Warmer weather over the past week has reduced snowpack significantly and increased runoff into Tenmile Creek. Tenmile Creek is presently flowing slightly above the median streamflow at this time of year, and projected temperature in the 60s and 70s over the next week should accelerate runoff.

Residents should keep track of weather patterns for increasing temperature and precipitation events which could change conditions quickly, and cause small creeks such as Tenmile Creek and Silver Creek to rise.

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The following data and information is used to evaluate hydrologic conditions in the Tenmile Creek drainage. Hydrologic response of Tenmile Creek is predominantly a result of three factors.

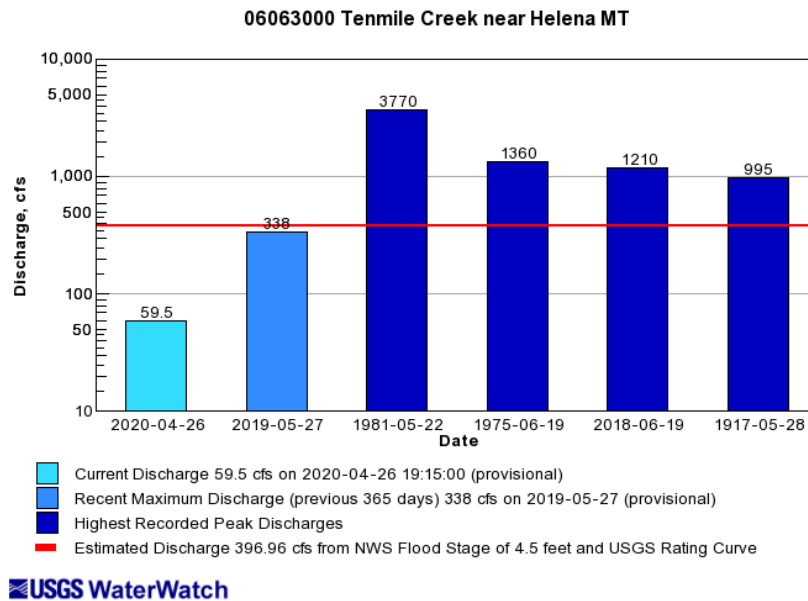
1. **Streamflow** measured at Williams St USGS Stream Gauging Station west of the city of Helena  
<https://waterdata.usgs.gov/monitoring-location/06062500>
  2. **Snowpack** snow water equivalent (SWE) at the Frohner Meadow SNOTEL Station west of Augusta  
<https://www.nwrfc.noaa.gov/snow/snowplot.cgi?FRHM8>
  3. Short-term Helena 5-day weather (**precipitation and temperature**) projection from the National Weather Service  
<https://forecast.weather.gov/MapClick.php?lat=46.5924&lon=-112.0403#.XpoTqkZKjBQ>
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## 1. STREAMFLOW

Streamflow on 04/26/20 was recorded at 60 CFS

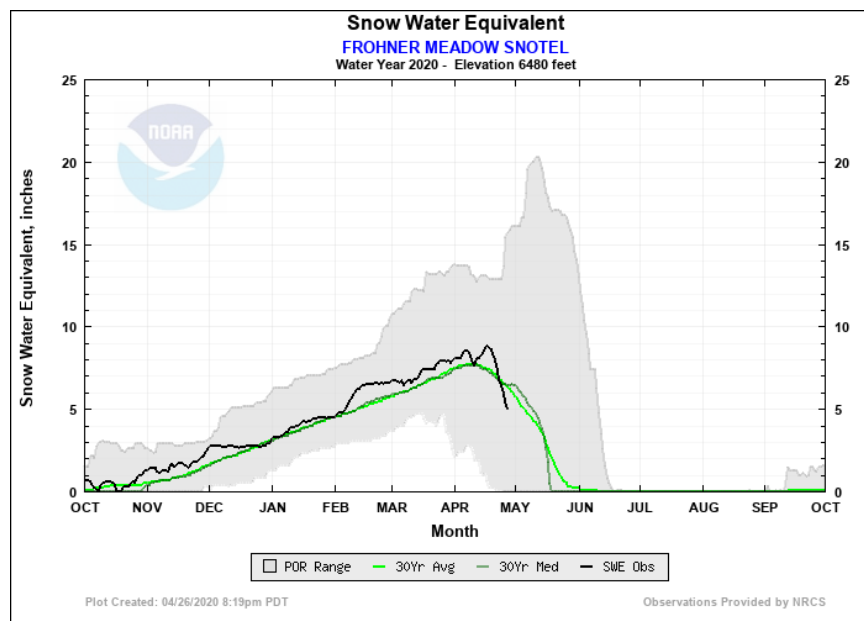
Median flow on 4/26 is 47 CFS

Flood stage is ~ 397 CFS



## 2. SNOWPACK (SWE)

SWE at Frohner Meadows is at 5.0" which is below average at 79%. 30-yr average SWE is 6.3".



## 3. WEATHER

Monday through next Thursday...Above average temperature are expected throughout the week with mild instability producing some scattered showers throughout the region. Highs in the 60s and upper 70s on Wednesday are likely for lower elevations Monday through Thursday, with lows above freezing overnight